

In the Claims:

The listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently amended) A method comprising:
injuring a vessel region; and
delivering an arteriogenic factor to a vessel region said vessel region in a medically effective manner to structurally enlarge an existing blood vessel.

2. (Original) The method of claim 1 wherein said delivery comprises providing said arteriogenic factor to said vessel region for a duration ranging from about one week to about five weeks.

3. (Original) The method of claim 1 further comprising providing a second delivery of said arteriogenic factor to said vessel region at about 3 to about 10 days after said delivering.

4. (Original) The method of claim 1 wherein said delivery comprises:
providing a syringe to accommodate said arteriogenic factor; and
advancing said arteriogenic chemical factor from said syringe to said vessel region.

5. (Original) The method of claim 1 wherein said delivery comprises:
providing a needle catheter to accommodate said arteriogenic factor; and
advancing said arteriogenic factor from said needle catheter to said vessel region.

6. (Original) The method of claim 1 wherein said delivery comprises:
providing a porous balloon catheter having a porous balloon to accommodate
said arteriogenic factor; and
advancing said arteriogenic factor from said porous balloon to said vessel region
via pores of said porous balloon.

7. (Canceled).

8. (Original) The method of claim 7 wherein said arteriogenic physical factor is
a needle catheter, said delivery comprising advancing a needle of said needle catheter
to said vessel region, said needle to puncture said vessel region.

9. (Canceled).

10. (Original) The method of claim 7 wherein said arteriogenic thermal factor
includes a catheter with a distal portion cooled to between about 0° C and about 10° C.

11. (Original) The method of claim 7 wherein said arteriogenic thermal factor
includes a catheter with a distal portion heated to a range from about 40° C to about
90° C.

12. – 23. (Canceled)

24. (Currently amended) A method of structurally enlarging an existing blood
vessel, said method comprising:
injuring said existing blood vessel; and
advancing a distal portion of a catheter to said existing blood vessel; and

delivering an arteriogenic factor in a medically effective manner to said existing blood vessel via said catheter.

25. – 26. (Canceled)

27. (Currently amended) An apparatus comprising:
an elongated catheter body; and
a distal portion of said elongated catheter body having a puncturing element, said distal portion configured to induce injury and deliver an arteriogenic factor to a vessel region in a medically effective manner to structurally enlarge an existing blood vessel.

28. (Original) The apparatus of claim 27 further comprising a catheter balloon at said distal portion.

29. (Original) The apparatus of claim 28 wherein said catheter balloon is equipped with pores for delivery of said arteriogenic factor.

30. (Currently amended) The apparatus of claim 27 further comprising
wherein said puncturing element comprises a needle at said distal portion.

31. (Original) The catheter of claim 30 wherein said needle is configured to puncture a vessel surface of said existing blood vessel when said distal portion is adjacent thereto.

32. (Original) The catheter of claim 30 wherein said needle is configured to release said arteriogenic factor from said distal portion to said vessel region.